

**MANUFACTURING SOURCE QUALIFICATION STATEMENT**  
(Public Law 98-525, Title 10 USC Section 2319)

**C code: Competitive, but requires Air Force Engineering source approval.**

**SECTION A: ITEM IDENTIFICATION.**

Stock Number (NSN):                1270-01-194-5732WF  
Part Number (P/N):                690R935G01  
Nomenclature:                        Radar Receiver  
Application:                         APG-68 Radar, F-16 C/D Aircraft

**SECTION B: JUSTIFICATION FOR ESTABLISHING A QUALIFICATION REQUIREMENT AND REASON WHY QUALIFICATION REQUIREMENT MUST BE DEMONSTRATED PRIOR TO CONTRACT AWARD.**

1. The Radar Receiver is a component of the Modular Low Power Radio Frequency unit in the APG-68 Radar System used on the F-16 C/D aircraft. The proper operation of the Radar System is vital to the safety and operational capabilities of the aircraft. Qualifying as a manufacturing source is necessary to assure the government that the Radar Receiver built by the vendor will perform properly in the aircraft environment. Failure to properly manufacture the Radar Receiver may result in compromising the safety and operational capabilities of the aircraft. Completion of the specified manufacturing source qualification requirements will ensure the government that the offeror is capable of manufacturing the Radar Receiver in compliance with the applicable specifications and data. The completion of these manufacturing source qualification requirements will establish the technical capability of the vendor to support the government's need for the Radar Receiver. Contract award on this item without verification of the vendor's technical capability could result in a critical supply position if the vendor is unable to successfully manufacture the Radar Receiver.
2. The Radar Receiver is a component of the F-16 C/D Aircraft Radar System. The manufacture of this unit requires specialized techniques and precision work. Any vendor attempting to qualify to manufacture this Radar Receiver must show the capability to deal with this technology.

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**SECTION C: QUALIFICATION REQUIREMENTS THAT MUST BE SATISFIED TO BECOME A QUALIFIED SOURCE AND QUALIFICATION WAIVER REQUIREMENTS.**

1. Pregualification Notice. The offeror shall notify OO-ALC/BC or, if responding to a solicitation, the contracting officer in OO-ALC/LGK of intent to qualify as a source for this item.
2. Manufacturing, Test and Inspection Capability. The offeror shall certify to the design control activity (OO-ALC/LGFMR), the availability of the required manufacturing, test, inspection, and diagnostic facilities and equipment, or provisions for their acquisition or utilization from another source. When the offeror proposes to acquire these items, the offeror shall provide documented equipment orders or similar documentation for government inspection.
3. Data Verification. The offeror shall verify possession of a complete data package by providing a list of applicable drawings, procedures, and specifications currently in his possession related to the manufacture of the Radar Receiver. This drawing package must be sufficient to show in thorough technical detail how the Radar Receiver shall be manufactured and tested. In addition the package must contain an acceptance test procedure designed to be a final functional checkout of manufactured devices sufficient in detail to ensure all operational functions meet specification. When the offeror proposes to use industry standards during manufacture of the Radar Receiver, the offeror shall document the differences between the industry standard and the military standard, and state why those differences do not adversely affect the ability of the Radar Receiver to pass the final functional checkout. The design control activity shall determine if the industry standard is acceptable for use in the manufacture of the Radar Receiver. Manufacturing and testing of this unit may require the use of some classified data; if so, the vendor must be approved to receive and store classified material.
4. Process Verification. The offeror shall identify sources for materials and standards for internally used processes. The offeror shall further define/provide written procedures for the utilization of any special test or inspection facilities and/or equipment. This documentation shall also include a diagnostic procedure showing the process the Radar Receiver being manufactured would undergo. The manufacturing process shall show how the offeror shall produce, inspect, and perform a final functional checkout. Development of special test procedures not available from the government is required. The offeror shall develop those procedures for review and approval by the design control activity.

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5. Test and Evaluation or Verification. The offeror shall submit to the design control activity an explanation of how they will certify that the manufacturing procedures and test methods meet the specifications for the Radar Receiver. The government retains the option to inspect the offeror's manufacturing and testing facilities. To allow accomplishing this, the offeror's facilities shall be made available to government inspection during the qualification effort upon ten days written notice of intent to inspect.

6. Qualification Article. Upon satisfactory compliance with the provisions of paragraphs 1 to 5 above, the offeror shall provide the design control activity a qualification article, which is a production equivalent, for testing in a government facility. This unit shall be tested by the cognizant design control activity to verify it meets all form, fit, and function requirements. Upon successful completion of qualification testing, the Radar Receiver will be returned to the offeror.

**Note:**

**Estimated likely costs for testing and evaluation which will be incurred by the potential offeror to become qualified: \$3,000.**

7. Sensitive Military Technology. Not applicable.

8. Testing and Manufacturing Evaluation. The offeror shall be required to submit a complete test report verifying compliance with all performance, environmental, mechanical, and quality assurance requirements identified by Westinghouse Electric Corp. drawing 690R935 and related drawings. In addition the test report shall contain detailed documentation describing the testing procedures during manufacture. This data shall describe in detail the point(s) in the manufacturing process that testing occurred, and if failures were noted, the corrective action taken and the results of the retest. The government retains the option to inspect the manufacturing and testing process, including on-site witnessing of any or all manufacturing and testing activities. The offeror will provide notification to the government of testing and evaluation 30 days in advance so that the government can witness, if needed, coordinate needed activities, support, etc.

9. Time Completion Estimate. It is the estimate of the design control activity that completion of this qualification effort should require 180 days. This is based on complexity of the Radar Receiver and other factors. This is not a deadline but a notification to a potential offeror of the time that we believe will be required. Events that occur during the qualification process may cause this time requirement to increase or perhaps decrease, depending on individual circumstances.

10. Time Limitation. An offeror may not be denied the opportunity to submit and have considered, an offer for a contract if the offeror can demonstrate to the satisfaction of the contracting officer that the offeror (or its product) meets these standards for qualification or can meet them before the date specified for award of the contract. The award will not be delayed to provide the vendor with an opportunity to demonstrate its ability to meet the standards specified in this source qualification statement.

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11. Evaluation of Proposals Not Previously Qualified. The offeror must be fully qualified in order to be eligible for a contract award. Therefore, the offeror must fulfill all of the requirements stated, in writing, in the source qualification statement before the date specified for award of the contract. The government reserves the right to award a contract at the time specified for award, to a qualified source even though other sources may not have finished qualifying.

12. Waiver. Any offeror who has had previous experience in the manufacture of the Radar Receiver or other similar items may apply to the design control activity for a waiver of some of the above requirements. Paragraphs 1 through 5 will not be waived. A waiver will be granted only if the design control activity can establish the qualification of the offeror from previous knowledge/interface or from written inputs from the offeror.

13. Approval. Once the qualification requirements are met, the offeror will be listed as an approved source for this item. Approval, however, does not guarantee subsequent contract award.

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**SECTION D: SIGNATURES.**

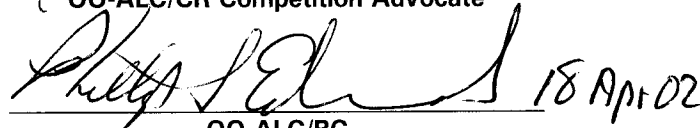
Review and Coordination

  
OO-ALC/LGFMR Radar Engineer

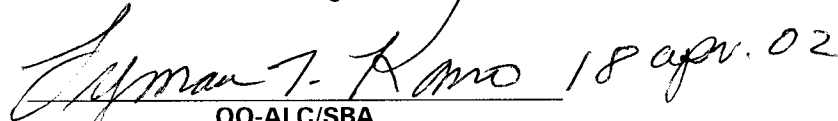
 15 Apr 02  
OO-ALC/LGFM Branch Lead Engineer

 17 Apr 02  
OO-ALC/LGFMR Section Chief

  
OO-ALC/CR Competition Advocate

 18 Apr 02  
OO-ALC/BC

Office of Small & Disadvantaged Business Utilization

 18 Apr. 02  
OO-ALC/SBA  
Small Business Administration

APPROVAL:

 24 Apr 02  
OO-ALC/LGK